



AquiStar® XL-SERIES DATA COLLECTION SYSTEMS



FEATURES

- Alkaline or rechargeable power options
- Externally-mounted quick connects for easy hook-up
- Easy-access PC interface
- NEMA 4X enclosure
- Lithium battery backup (XL10 only)
- Real-time graphics
- System programming and integration

AquiStar® Model XL5-X Series

The AquiStar® XL5 Data Collection System comes fully equipped with a Campbell Scientific CR510. Housed in a NEMA 4X enclosure, the XL5 features up to four analog channels and is an ideal dedicated system for field monitoring and control applications.

AquiStar® Model XL10-X Series

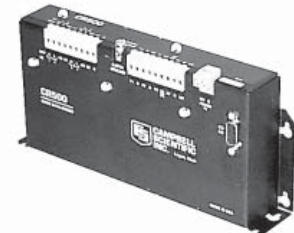
INW's AquiStar® XL10 Data Collection System features the field-proven Campbell Scientific CR10X and is capable of measuring up to 12 analog channels (additional channels available with AM416 multiplexer). The XL10 system is designed for more complex monitoring and control applications.

AquiStar® Model XLX-10/15 Series Power Options

Choose a power supply option by selecting -10 for the alkaline power option or -15 for the rechargeable option. Both power options are packaged in a rugged enclosure and feature quick connects for easy hook-up and battery exchange.

Applications & Operation

More often today than ever before, investigators are looking for ways to remotely measure our environment's physical and chemical parameters. To meet this need, INW provides sensor technology that can be integrated into site-specific monitoring and control systems. The following are a few examples of systems incorporating AquiStar® XL-Series data loggers.



-10 Alkaline
Power Option



-15 Rechargeable
Power Option



**Instrumentation
Northwest, Inc.**

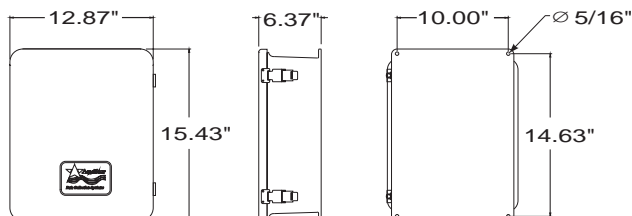
1-800-776-9355
<http://www.inwusa.com>



XL-SERIES

DATA COLLECTION SYSTEMS

DIMENSIONS and SPECIFICATIONS



HOW TO ORDER

- Choose the appropriate data logger.
- Determine power supply options.
- Determine connector and wire seal options.
- Order accessories.
- Order standard software options.
- Order system integration services as needed.

XL-SERIES DATA COLLECTION SYSTEMS	
6D500	AquiStar® System Model XL5-10
6D515	AquiStar® System Model XL5-15
6D600	AquiStar® System Model XL10-10
6D615	AquiStar® System Model XL10-15
3D096	M6 Female Bulkhead Option
3D097	M10 Female Bulkhead Option
3D101	Standard 1/4" Wire Seal Option
3D102	Kellem® 1/4" Wire Seal Option
3D025	BNC Bulkhead Option
MISCELLANEOUS	
6D015	AquiStar® XL-Series Accessory Kit
6D095	12 V/7 Amp/h Spare Battery
6D028	PC 208W Windows Based Software
6D039	AquiStar® XL-Series Serial Cable

Information in this document is subject to change without notice.

Instrumentation Northwest, Inc.



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MECHANICAL

Input Connectors	6 pin or 10 pin Mil-Spec/BNC
Output Connectors	6 pin or 10 pin Mil-Spec/BNC
Enclosure	Fiberglass Reinforced Polyester
Weight (approximate)	20 - 25 lbs.

ELECTRICAL

Model	XL5-10/15	XL10-10/15
Logger Type	CR510	CR10X
Analog Channels	2 differential/ 4 single ended	6 differential/ 12 single ended
Digital I/O Ports	2 ports	8 ports
Pulse Ports	2 channels (2) 8-bit or (1) 16-bit	2 channels (2) 8-bit or (1) 16-bit
Switched 12V	N/A	1 port - controlled by 1 digital port
Memory	128K Flash 32K SRAM	128K Flash 128K SRAM
Backup Battery	N/A	Lithium / 270mAh

COMMON SPECIFICATIONS

Range and Resolution

Full Scale Input Range (mV)	Resolution (µV)	
	Differential	Single Ended
+/-2500	333	666
+/-250	33.3	66.6
+/-25	3.33	6.66
+/-7.5	1.00	2.00
+/-2.5	.33	0.66

Input Sample Rates

Fast differential voltage	4.2 ms
Slow differential voltage	9.2 ms
Differential with 60Hz rejection	25.9 ms

Accuracy

+/- 0.1% of FSR (-25° to 50°C)
+/- 0.05% of FSR (0° to +40°C)
+/- 2.5V

Common Mode Range

DC Common Mode Rejection >140dB

Normal Mode Rejection

70dB

(60 Hz with slow differential measurement)

Input Current

+/- 9nA maximum

Input Resistance

20GΩ typical

Excitation

+/- 2.5V

Excitation Accuracy

+/- 2.5mV (0° to 40°C)
 +/- 5 mV (-25° to +50°C)

Resolution

0.67 mV

Output Current

+/-25mA

Peripheral Interface

RS232

Power Requirement

9.6 - 16 Volts

Operating Temperature

-25°C to +50°C

BATTERIES

-10 Alkaline Batteries	8 (D-cell) 7Ahr @ 20°C
-15 Rechargeable Battery	12V/7Ahr sealed lead acid

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